## Ryota Maeda

Himeji, Hyogo, Japan

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Research Interests	
<ul> <li>Computer Vision</li> <li>Polarimetric Imaging</li> <li>Computer Graphics</li> <li>Light Transport Acquisition</li> </ul>	Computational Imaging 3D Reconstruction
Education	
University of Hyogo Ph.D. of Engineering	Apr. $2022 -$
University of Hyogo Master of Engineering	Apr. 2020 – Mar. 2022
University of Hyogo Bachelor of Engineering	Apr. 2016 – Mar. 2020
Publications	
Polarimetric Light Transport Analysis for Specular Inter-reflection Ryota Maeda, Shinsaku Hiura arXiv (under review)	Dec. 2023
Refinement of Hair Geometry by Strand Integration Ryota Maeda, Kenshi Takayama, Takafumi Taketomi Computer Graphics Forum (Proc. of Pacific Graphics 2023)	Oct. 2023
EpiScope: Optical Separation of Reflected Components by Rotation of Polygov Ryota Maeda, Shinsaku Hiura SIGGRAPH Asia 2021 Technical Communications	nal Mirror Dec. 2021
Research Experience	
Optical Media Interface Lab, NAIST Research Intern Montemu Himanhi Kaba and Vasahina Mahajagana	Aug. 2018
CyberAgent AI Lab Research Intern Mentors: Kenshi Takayama and Takafumi Taketomi	Aug. 2022 – Sep. 2022
Software on GitHub	
Polanalyser   ☆ 130 stars         Polarization image analysis tool. Demosaicing, Stokes vector, Mueller matrix.	
<b>structuredlight</b>   $\bigstar$ 118 stars Generate and Decode structured light. Binary, Gray, XOR, Ramp, Phase-Shifting, Stripe.	
<b>EasyPySpin</b> $ $ $\bigstar$ 94 stars cv2.VideoCapture like wrapper for FLIR Spinnaker SDK.	
Skills	
Programming: Python, C/C++, NumPy, OpenCV, PyTorch Embedded System: Arduino, Mbed Design and CAD: Photoshop Lightroom lillustrator Eucion 360	

**Design and CAD**: Photoshop, Lightroom, Iillustrator, Fusion 360 Language: Japanese, English